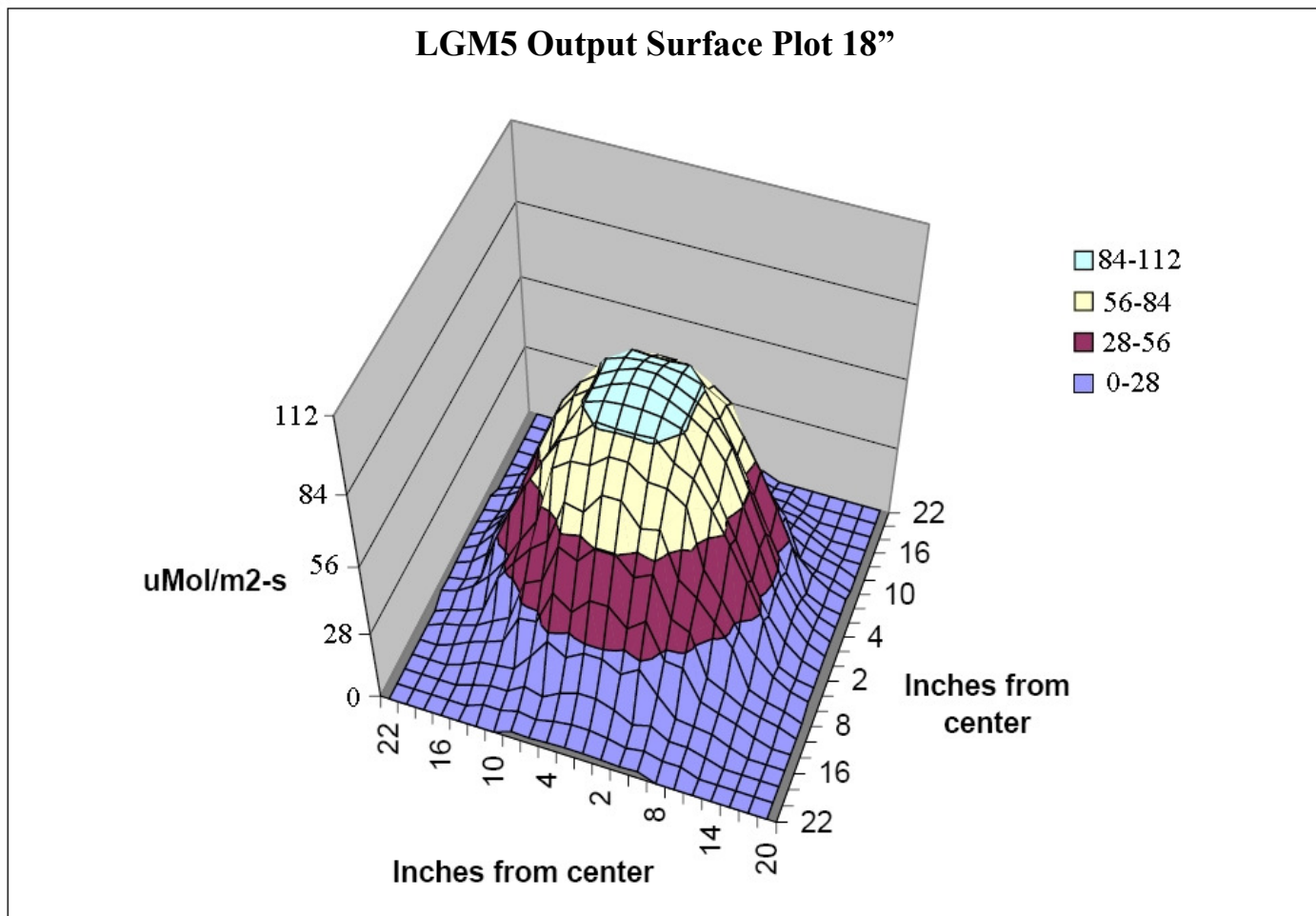




SolarOasis LED based grow lights produce only light that plants can use for growth, health, smell, and taste. Light is emitted in a cone shape so that clusters of light from one LED bar will overlap with light from the next bar to increase light intensity. Currently the best light measurement for LED grow lights is the microEinstein commonly written as μMols of energy. However, this measurement must also be weighted by wavelength in the PAR spectrum based on published plant absorption curves before a true comparison between traditional and LED based grow lights can be made.



Measuring equipment corrections must be made when measuring LED based grow lights. The quantum sensors commonly used to measure light output, such as the Li-Cor and Skye product lines are known to be very inaccurate at measuring light output from artificial light sources, and have even greater errors when measuring light output from LED arrays (See Accuracy of quantum sensors measuring yield photon flux and photosynthetic photon flux. Barnes C, Tibbitts T, Sager J, Deitzer G, Bubenheim D, Loemer G, Bugbee B. Department of Plants, Soils, and Biometeorology, Utah State University, Logan 94322-4820).